

# 2015-16 Novice Reduction Score for Next-Generation Learners Accountability

From 703 KAR 5:200. Next-Generation Learners (edited):

- (e) Reduction of novice student calculation. Annual novice reduction targets shall be calculated for student groups with a minimum of ten (10) novice students...
- (f) The calculations shall be made using the novice reduction in reading and mathematics.
- (g) The novice reduction gap groups shall have a minimum of ten (10) students per content area in the school or district in order to report gap data.
- (h) The points shall be distributed equally between the content areas tested in reading and mathematics.
- (i) Gap shall be computed equally using non-duplicated gap group and reduction of novice calculations.

## Demographic Groups

The following demographic groups are eligible to have a target:

- |                                  |                               |
|----------------------------------|-------------------------------|
| 1. African American              | 5. Free/Reduced-Priced Lunch  |
| 2. Hispanic                      | 6. Disability - with IEP      |
| 3. American Indian/Alaska Native | 7. Gap Group (Non-Duplicated) |
| 4. Limited English Proficiency   |                               |

## Minimum Requirements

Novice reduction targets are generated for each demographic group that has a minimum of ten (10) novice students by level. The district will also generate novice reduction targets based on the population of the entire district.

Individual schools may not have targets for a particular demographic group. However, the district may. For example, a district has five elementary schools each with six novice Hispanic students. The individual schools will not generate novice reduction targets. Since the district has 30 novice Hispanic students, the district would have a target.

If the school or district has a novice reduction target for the prior year, but does not have 10 accountable students in the demographic group the accountable year, the school/district will not be accountable for the demographic group. See the African American demographic population for mathematics as an example in the table on the next page.

The overall goal is to reduce the percent novice by 50% over a 5 year period. This translates to a decrease of the novice percentage by one (1) tenth each year to set annual targets. The annual targets will be recalculated each year.

## Glossary of Terms (Letters correspond to table on next page)

- A. Number Accountable for Prior Year—Total number of students in the demographic group
- B. Number Novice for Prior Year—Total number of students within the demographic group with novice scores in reading and/or mathematics (must have minimum of 10 for the prior year to have a target)
- C. Percent Novice for Prior Year—Number of novice students divided by the number of accountable students  
 **$(B \div A)$**
- D. Reduction Target Needed for 100% Met—Approximately 10% of the percent novice  **$(.1 \times C)$**
- E. Novice Target %—Percent Novice minus Reduction Target  **$(C - D)$**
- F. Number Accountable for Current Year—Total number of students in the demographic group (must have minimum of 10 students for the current year)
- G. Number Novice for Current Year—Total number of students within the demographic group with novice scores in reading and/or math
- H. Percent Novice for Current Year—Number of novice students divided by the number of accountable students  
 **$(G \div F)$**
- I. Change in Novice Percentage from Prior Year to Current Year—Percent Novice (Prior Year) minus Percent Novice (Current Year)  **$(C - H)$**
- J. Reduction Target Met—Change in Novice Percentage from Prior Year to Current Year  **$(I)$**   
If the change is negative, the target met will be indicated as a zero (Cannot be greater than  **$(D)$** )
- K. Percent of Target Met—Reduction target met divided by the reduction target needed  **$(J \div D)$**
- L. Novice Reduction Points by Content Area—The sum of the Percent of target Met for all demographic groups divided by the number of demographic groups school/district is accountable
- M. Total Novice Reduction Points—The Novice Reduction points by content area is multiplied by 50% rounded to 1 decimal place then added together. Total points possible is 100.

**Note: All computations are rounded to 1 decimal place.**

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## Calculation of Novice Reduction for the Gap component of Next-Generation Learners

Steps to calculate ANNUAL Novice Reduction points:

- From the *prior* year data in reading and mathematics separately, check for the total number accountable and a minimum of 10 accountable novice students for each demographic group. This becomes the base for setting the **annual target**.
  - If the demographic group has 10 or more *novice* students, a novice reduction target will be calculated.
- From the *current* year data in reading and mathematics separately, check the demographic group for a minimum of 10 accountable students (not only novice students) in the population and calculate the current novice percentage. See Glossary of Terms for calculations of each component.
- If a demographic group has both a prior year target and a current year population, the percentage of the target met is calculated. See Glossary of Terms for calculations of each component. Note: reporting values for each category is capped at 100%.
- Average the percentages for the reported annual target groups to calculate the novice reduction points for each content area (reading and mathematics separately).
- Multiply the number of novice reduction points for each content area by 50% and round to 1 decimal place, then add together for the total novice reduction points.
- To calculate the total gap points for accountability take 50% of the novice reduction points plus 50% of the non-duplicated gap group points.

See examples below:

Step  
1

Step  
2

Step  
3

Step  
4&5

Content Area	Demographic Group	Baseline and Target (From Prior Year)					Actual (From Current Year)			Change in Novice Percentage from Prior Year to Current Year	Reduction Target Met	Percent of Target Met (Reduction Target Met/Reduction Target Needed)	Novice Reduction Points by Content Area	Total Novice Reduction Points
		Number Accountable	Number Novice (minimum N=10)	Percent Novice	Reduction Target Needed for 100% Met	Novice Target %	Number Accountable (minimum N=10)	Number Novice	Percent Novice					
Reading	African American	15	2				16	5					5.5	22.0
	Hispanic	31	10	32.3	3.2	29.1	34	11	32.4	-0.1	0.0	0.0		
	American Indian/Alaska Native	1												
	Limited English Proficiency	19	11	57.9	5.8	52.1	16	9	56.3	1.6	1.6	27.6		
	Free/Reduced-Price Lunch	212	53	25.0	2.5	22.5	212	57	26.9	-1.9	0.0	0.0		
	Disability – with IEP	82	53	64.6	6.5	58.1	87	65	74.7	-10.1	0.0	0.0		
	Gap Group (Non-Duplicated)	289	94	32.5	3.3	29.2	290	97	33.4	-0.9	0.0	0.0		
Mathematics	African American	14	11	78.6	7.9	70.7	9	2					38.3	
	Hispanic	31	2				34	4						
	American Indian/Alaska Native	1	0											
	Limited English Proficiency	19	5				16	4						
	Free/Reduced-Price Lunch	212	32	15.1	1.5	13.6	212	30	14.2	0.9	0.9	60.0		
	Disability – with IEP	82	42	51.2	5.1	46.1	87	47	54.0	-2.8	0.0	0.0		
	Gap Group (Non-Duplicated)	289	59	20.4	2.0	18.4	290	56	19.3	1.1	1.1	55.0		

A

B

C

D

E

F

G

H

I

J

K

L

M

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